Development (195 18) Department.

No. SERIES

Letter No.
[redacted] 1980

Dated Iowa March 1946

[Despatch Abstract.]

Agriculture - Indian Council of Agriculture Research - Scheme for the improvement of chillies - Forwarded.

Scheme for the improvement of Chillies in the Madras Presidency.

The cultivation of chilli crop on an extensive scale is confined to the following districts of the Presidency:.

Dts	1922-23	1941-42	1942-43	1943-44	1944-45	1945-
Vizagapatam	14950	20963	20579	15760	13004	13004
East & West Godavari	25346	27403	29806	33017	29518	30443
Krishna	23443	10963	14002	15249	13136	12409
Guntur	121537	52550	70963	82851	67415	57936
Kurnool	21797	19630	22998	25698	21336	24724
Bellary	8256	10705	9944	10588	9779	11184
Anantapur	7606	9466	10554	11251	10206	10856
Cuddapah	4586	5268	6443	5975	5500	6710
Nellore	9988	11769	11493	12942	11767	11732
i. Total	237509	168717	196832	213331	181711	178998
ii. Other Dts.	102738	121182	122391	126466	103411	111511
iii. Grand Total	340247	289899	319223	339797	285122	290509

About two-thirds of the area noted above is raised under rainfed conditions. Prior to 1921, Guntur district claimed the largest area and together with Krishna constituted the two Chief centres of production of rainfed crop. It was paying and popular money crop among the dry land ryots of the black cotton soil. The net normal return was about Rs.100/- per acre. The table above shows that during the past five years there has been a gradual and substantial decline in acreage especially in the districts of Guntur and Krishna. Appearance of ~~Trh~~ Thrips as a serious pest is reported to be the primary cause for reduction in the cultivated area. Of late, complete failure of crop is also reported.

Since 1931, the department has been trying to evolve thrip resistant strains. Selection from local bulks did not prove fruitful, but of the cultures introduced from Pusa yielded a number of types were found to fare better than the local varieties. Type 398 evolved from one of the Pusa strain, proved a little resistant but the colour and flavour of the fruit is not liked by the cultivators.

Since 1939, an attempt was made to evolve a mere cosmopolitan and resistant type. So far no strain with thrip resisting character has been evolved.

Further trials should be made more in the search for high resistant type. The relation between the host and the pest and detailed observations on specific morphological character as factors of plant resistance will have to be studied. The knowledge gained thereon will have to be utilised in building up a strain combining resistance and yield. In addition to these modifications in breedings technique, a thorough survey of the rainfed and irrigated chillies of the whole of India with the object of making collections and selections of breeding material seems to be necessary.

2. Programme of work: The scope of research will consist of:-

i. An All-India Survey and collection of chillies,
ii. breeding under conditions of severe artificial thrip infestation.
iii. utilization of resistant varieties in building up an economic strain by hybridization, and

iv. planning agronomic experiments to study their effect on thrip incidence and control.

3. Venue of work. Necessary land, building and other facilities required for the scheme can be made available at the Agricultural Research Station, Guntur.

4. Staff: An intensive study of the problem on the above lines will require the services of an experienced plant breeder of Gazetted rank. He should be assisted in the first and second by two B technically qualified Assistants and in the subsequent three years there should be three Assistants to cope with the increase in the work, as by that time it is expected some cultures will be available for intensive trials. Each Assistant should have the help of a Fieldman to help him in lay-out of plots, recording observations etc.

Budget estimate for the proposed Chillies scheme at the Agricultural Research Station, Guntur.

PARTICULARS	I year	II Year.	III Year.	IV Year	V Year	Total
RECURRING -						
PAY OF OFFICER AND ESTABLISHMENT:						
One Gazetted Officer - Rs.230-30/2-260-40/2-500-50/2-700	2760	2760	3120	3120	360	15360
Two Research Assistants for the first two years and three for the next three years at Rs.100-5-140-10-220	2400	2520	3840	4020	420	16980
Two fieldmen for the first two years and three for the next three years at Rs. 45-2-55-1-60	1080	1128	1716	1788	186	7572
One clerk at Rs.45-3-60-2-90	540	576	612	648	68	3060
Two peons 16-½-A-25	384	396	408	420	432	2040
Total	7164	7380	9696	9996	10776	45012
II. Cost of Living Allowance and Dearness Allowance:						
For Gazetted Officer	552	552	624	624	708	3060
For Research Assistants @ Rs.24 and (17½ +8)	576	624	936	984	1020	4140
For Fieldmen (22)	528	528	792	792	792	3432
For one clerk (22)	264	264	264	264	264	1320
For two peons (18)	412	412	412	412	412	2060
	2332	2380	3028	3076	3196	
III. Travelling Allowance						
For Gazetted Officer	1000	1000	750	750	750	4250
For Assistants	300	400	500	500	500	2200
	1300	1400	1250	1250	1250	6450

PARTICULARS.	I Year.	II Year.	III year	IV year	V Year	Total
IV Contingencies:						
1. Ordinary cultivation @ Rs.30/- per acre for 8 acres	240	240	240	240	240	1,200
2. Cost of raising nursery (Lump sum)	300	300	300	300	300	1,500
3. Experimental cultivation for 8 acres @ Rs.150/-	1,200	1,200	1,200	1,200	1,200	6,000
4. For Laboratory examination of selections at Rs.50/- per acre	400	400	400	400	400	2,000
Total	2,140	2,140	2,140	2,140	2,140	10,700
5. Service stamps	150	150	150	150	150	750
6. Stationery and printed forms	200	150	150	150	150	800
7. Special stationery like paper, covers etc.	100	100	100	100	100	500
8. Miscellaneous articles like stakes, waste paper Railway freight cart hire etc.	100	100	100	100	100	500
9. Deadstock						
(a) Office & equipment.	1,250	100	100	100	100	1,650
(b) Laboratory equipment	4,500	200	200	200	200	5,300.
10. Unforeseen items	100	50	50	50	50	300
Total	8,540	2,990	2,990	2,990	2,990	20,500

ABSTRACT OF THE ESTIMATES

Particulars	I Year	II Year.	III Year.	IV Year	V Year	Total
RECURRING:						
1. Pay of Officer and Establishment	7,164	7,380	9,696	9,996	10,776	45,012
2. Cost of Living allowance and Dearness allowance	2,332	3,380	3,028	3,076	3,196	14,012
3. Travelling allowance	1,300	1,400	1,250	1,250	1,250	6,450
4. Contingencies	8,540	2,990	2,990	2,990	2,990	20,500
Total	19,336	14,150	16,964	19,312	18,212	85,974

500 lb. dry fruit per acre valued at Rs.150/-
The annual receipts for 8 acres will be Rs.1,200
The total receipts for 5 years will be Rs.6,000/- from 8 Acs

Expenditure (on 50:50 basis)- Share of I.C.A.R. Rs.42,987
Share of Government Rs.42,987
Rs.85,974

Details for initial equipment

	Quantity	Rate	Amount
1. Officer's table Teakwood	1	100- 0- 0	100- 0- 0
2. Teakwood tables for 3 assistants and fieldmen	4	75- 0- 0	300- 0- 0
3. Teakwood work tables	2	75- 0- 0	150- 0- 0
4. Teakwood rattan seat chairs	2	15- 0- 0	30- 0- 0
5. Teakwood bug proof chairs	4	10- 0- 0	40- 0- 0
6. Teakwood ~~record racks~~ stools	4	6- 0- 0	24- 0- 0
7. Teakwood record racks	4	25- 0- 0	100- 0- 0
8. Teakwood trays	10	4- 0- 0	40- 0- 0
9. Almirahs for stationery and office records	2	210- 0- 0	420- 0- 0
10. Teakwood stationery cabinets	2	20- 0- 0	40- 0- 0
			1250- 0- 0

*for Officer.

Laboratory equipment:

1. Racks for seed materials	2	200- 0- 0	400- 0- 0
2. Racks for cloth bags	2	100- 0- 0	200- 0- 0
3. Seed containers (Tin size)	Lumpsum		500- 0- 0
4. Seed containers (small size)	do.		500- 0- 0
5. Cloth bags (big size)	do.		200- 0- 0
6. do. (small size)	do		1000- 0- 0
7. do. (for selfing)	do.		500- 0- 0
8. Gunnies	do.		100- 0- 0
9. Avery's counterpoise balance	1 do.		100- 0- 0
10. Cement scale	2 do.		300- 0- 0
11. Emasculating sets and lens	do.		150- 0- 0
12. Purchase of books, periodicals etc.			130- 0- 0
13. Miscellaneous articles			420- 0- 0
			4500- 0- 0

Rs.4,500/-

Sd/ . ** **
Gazetted Assistant.

p.t.o.

GOVERNMENT OF MADRAS
Development Department

Letter Ms.No.1320

From

The Secretary to Government,
Development Department

To

Secretary to the Indian Central Agricultural Research,
New Delhi (with enclosure)

Dated Fort St. George the 16th March 1948.

Sir,

AGRICULTURE - Indian Central Agricultural Research Scheme for the improvement of chillies - Forwarded

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I am directed to forward herewith a scheme for the 'Improvement of chillies' in Madras Province. The scheme is proposed for a period of five years and is estimated to cost Rs.85,974/- with an anticipated revenue of Rs.6,000/- It is proposed to share the expenditure between the Indian Council of Agricultural Research and the Provincial Government on a 50:50 basis and the entire receipts will be credited to the Provincial Government.

I am to request that the sanction of the Indian Council of Agricultural Research may kindly be obtained and communicated to this Government at an early date.

Yours faithfully,

C.V. Narasimham,
Secretary to Government

Copy to the Director of Agriculture, Madras. He is reques to submit the necessary printed copies of the scheme for transmission to the Indian Council of Agricultural Research (with enclosure)

(True copy)

11/5/34

Office Assistant,
Madras Record Office.